

Upper-Midwest Student Symposia

2003

May 2 to 3

1st Upper-Midwest Inter-MRSEC Student Symposium

Frontiers in Polymer Science

University of Chicago

2004

April 30

2nd Upper-Midwest Inter-MRSEC Student Symposium

University of Wisconsin, Madison

2007

April 14

3rd Annual Upper-Midwest Student Symposium

Northwestern University

2009

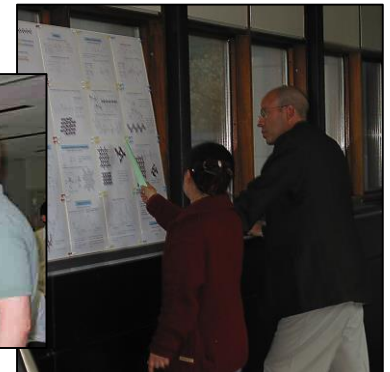
April 25

4th Annual Upper-Midwest Student Symposium
University of Wisconsin, Madison

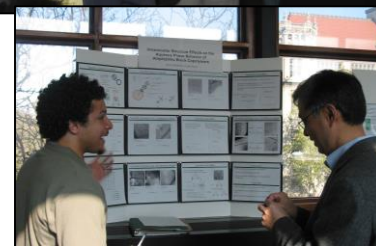
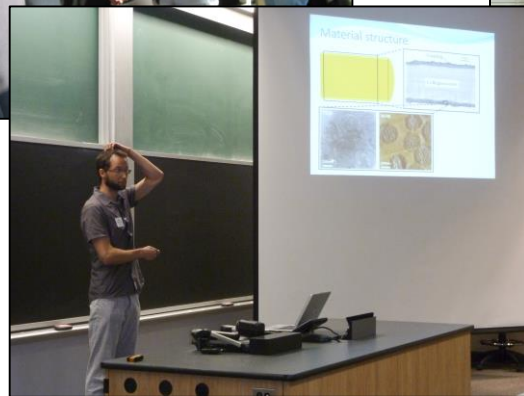
2010

October 9

5th Upper Midwest MRSEC Symposium
Nanostructures in Soft Matter
University of Minnesota, Twin Cities



Pictures!



New MRSECs come on line....

2008– Ohio State MRSEC

2011--Michigan MRSEC

(also remember that Nebraska (2002) is sometimes considered the mid-west as well....)

Greater driving distances...

Greater diversity of research...

Interactions between larger group: more complex to manage...



Bio-inspired/ Bio-mimetic

[Spatiotemporal Control of Active Materials @ University of Chicago](#)

[Functional Liquid Crystalline Assemblies, Materials and Interfaces @ University of Wisconsin-Madison](#)

Condensed Matter Phenomena

[Dynamics at Soft Interfaces @ University of Chicago](#)

[Engineering Quantum Materials and Interactions @ University of Chicago](#)

[Spatiotemporal Control of Active Materials @ University of Chicago](#)

[Controlling Fluxes of Charge and Energy at Hybrid Interfaces @ Northwestern University](#)

[Fundamentals of Amorphous Oxide Semiconductors @ Northwestern University](#)

[Functional Liquid Crystalline Assemblies, Materials and Interfaces @ University of Wisconsin-Madison](#)

[New Semiconductors from an Unstable World: Manipulating Strain, Stability, Dimensionality and Flexibility @ University of Wisconsin-Madison](#)

[Ultrastable Glasses: New Materials and New Insights @ University of Wisconsin-Madison](#)

Mechanics of Materials

[Dynamics at Soft Interfaces @ University of Chicago](#)

[Spatiotemporal Control of Active Materials @ University of Chicago](#)

[Ultrastable Glasses: New Materials and New Insights @ University of Wisconsin-Madison](#)

Multiferroics/Magnetics/Spintronics

[Fundamentals of Amorphous Oxide Semiconductors @ Northwestern University](#)

[Nonlinear Interactions Between Spin Flux and Engineered Magnetic Textures @ Ohio State University](#)

[Spin-Orbit Coupling in Correlated Materials: Novel Phases and Phenomena @ Ohio State University](#)

[Electrostatic Control of Materials @ University of Minnesota](#)

Nanostructures/Nanoparticles

[Controlling Fluxes of Charge and Energy at Hybrid Interfaces @ Northwestern University](#)

[Plasmonically Encoded Materials for Amplified Sensing and Information Manipulation@Northwestern University](#)

[Control of 2D Electronic Structure and 1D Interfaces by Surface Functionalization of Group IV Graphane Analogues @ Ohio State University](#)

[Wide bandgap nanostructured materials for quantum light emitters @ University of Michigan](#)

[Sustainable Nanocrystal Materials @ University of Minnesota](#)

[Functional Liquid Crystalline Assemblies, Materials and Interfaces @ University of Wisconsin-Madison](#)

[New Semiconductors from an Unstable World: Manipulating Strain, Stability, Dimensionality and Flexibility @ University of Wisconsin-Madison](#)

Polymers

[Hierarchical Multifunctional Macromolecular Materials @ University of Minnesota](#)

[Functional Liquid Crystalline Assemblies, Materials and Interfaces @ University of Wisconsin-Madison](#)

Semiconductors/Photonics/Organic Electronics

[Controlling Fluxes of Charge and Energy at Hybrid Interfaces @ Northwestern University](#)

[Fundamentals of Amorphous Oxide Semiconductors @ Northwestern University](#)

[Advanced metamaterials and near-field tools @ University of Michigan](#)

[Electrostatic Control of Materials @ University of Minnesota](#)

[New Semiconductors from an Unstable World: Manipulating Strain, Stability, Dimensionality and Flexibility @](#)

[University of Wisconsin-Madison](#)

[Ultrastable Glasses: New Materials and New Insights @ University of Wisconsin-Madison](#)

Soft Materials/Colloids

[Dynamics at Soft Interfaces @ University of Chicago](#)

[Functional Liquid Crystalline Assemblies, Materials and Interfaces @ University of Wisconsin-Madison](#)

[Ultrastable Glasses: New Materials and New Insights @ University of Wisconsin-Madison](#)

Issues:

Scientific commonalities now more difficult to elucidate since mrsec competitions have gotten tougher (e.g. competition between topical IRGs)....

Focusing on scientific commonalities between proximate Centers left a large group of students (UChicago) unable to participate....

If > 6 hours drive, then why not fly? (although navigating O'Hare to UChicago sometimes > 1 hour depending on traffic)

Idea in its prime?

More attractive to have inter-mrsec topical discussions, even if greater overall cost? (people have to fly in and also stay overnight)

What constitutes best opportunity for graduate students? Include postdocs in this event?

What about similar event for undergrads?

So how should we approach
joint education/outreach events
if lacking scientific overlap?
(does it matter?)

P.S. I was asked to ask
about your university
requirements for
special training/
background checks for
outreach volunteers